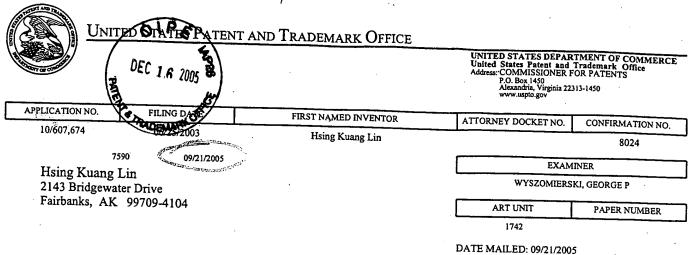
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Please find below and/or attached an Office communication concerning this application or proceeding.

OIFE	4		
DEC 16 2	Application No.	Applicant(s)	
The state of the s	10/607,674	LIN ET AL.	
Office Action Summary	Examiner	Art.Unit	
& TRADEMN	George P. Wyszomic	***	
The MAILING DATE of this communication Period for Reply			dress
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the n earned patent term adjustment. See 37 CFR 1.704(b).	J DATE OF THIS COMN R 1.136(a). In no event, however, b. wriod will apply and will expire SIX ( latute, cause the application to be	AUNICATION. may a reply be timely filed  6) MONTHS from the mailing date of this co	
Status			
1) Responsive to communication(s) filed on _			
	This action is non-final.		
3) Since this application is in condition for allo		I matters, prosecution as to the	e merits is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 193	5 C.D. 11, 453 O.G. 213.	
Disposition of Claims		•	
4) Claim(s) 1-3 is/are pending in the applicati 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 is/are rejected.		n.	
7) Claim(s) is/are objected to.			٠.
8) Claim(s) are subject to restriction a	nd/or election requireme	nt.	•
Application Papers	·		
<ul> <li>9) The specification is objected to by the Exar</li> <li>10) The drawing(s) filed on <u>03 October 2003</u> is. Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by th</li> </ul>	/are: a)⊠ accepted or the drawing(s) be held in a crection is required if the di	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 C	FR 1.121(d).
	e Examiner. Note the at	ached Office Action of John P	10-152.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been receive nents have been receive priority documents have reau (PCT Rule 17.2(a)	d. d in Application No been received in this National	Stage
	•		
Attachment(s)			
1) Notice of References Cited (PTO-892)		erview Summary (PTO-413)	
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 6/25/03.</li> </ul>	) Pap 3/08) 5).	per No(s)/Mail Datei lice of Informal Patent Application (PT er:	O-152)
S. Palent and Trademark Office			

Art Unit: 1742

1. An examination of this application reveals that applicant is unfamiliar with patent prosecution procedure. While an inventor may prosecute the application, lack of skill in this field usually acts as a liability in affording the maximum protection for the invention disclosed. Applicant is advised to secure the services of a registered patent attorney or agent to prosecute the application, since the value of a patent is largely dependent upon skilled preparation and prosecution. The Office cannot aid in selecting an attorney or agent.

A listing of registered patent attorneys and agents is available on the USPTO Internet web site http://www.uspto.gov in the Site Index under "Attorney and Agent Roster." Applicants may also obtain a list of registered patent attorneys and agents located in their area by writing to the Mail Stop OED, Director of the U. S. Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450

- 2. The substitute specification filed October 3, 2003 (including Abstract, Claims, and Drawings) has been entered into the file.
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- a) The present specification and claims use the terms absorb and adsorb (and their derivatives) interchangeably. For example, step (a) of claim 1 recites "adsorbing dissolved"

Application/Control Number: 10/607,674

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species... using an absorbent". The terms "absorbing" and "adsorbing" describe two distinct chemical processes, and a reading of the specification and claims would not allow one to determine which of these processes occurs in the invention as disclosed and claimed. Thus it is unclear what processes would or would not fall within the scope of the present claims.

- b) In claim 1, step (b), "the loaded absorbent" lacks proper antecedent basis.
- c) In claim 3, it appears that the word "includes" should be changed to read "is selected from the group consisting of".
- 5. The prior art noted on the attached PTO-892 and 1449 forms is of interest. This art does not appear to disclose or suggest a process as defined in the present claims. With respect to the references cited on the PTO-1449 form, the examiner notes that only the <u>Abstracts</u> have been considered, as that is the only portion of the references supplied by Applicant.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Wyszomierski whose telephone number is (571) 272-1252. The examiner can normally be reached on Monday thru Friday from 8:00 a.m. to 4:30 p.m. Eastern time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King, can be reached on (571) 272-1244. Effective July 15, 2005, all patent application related correspondence transmitted by facsimile must be directed to the new central facsimile number, (571)-273-8300. This new Central FAX Number is the result of relocating the Central FAX server to the Office's Alexandria, Virginia campus.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

1700

GPW September 16, 2005

PTO/SB/08b(05-03) Approved for use through 05/31/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ct of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO Complete if Known **Application Number** LW2003/01 INFORMATION DISCLOSURE Filing Date 06/27/2003 STATEMENT BY APPLICANT First Named Inventor Hsing Kuang Lin Art Unit 1742 (Use as many sheets as necessary) Examiner Name WYSZOMIERSKI Sheet Attorney Docket Number

	<del></del>	NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2	l .
Gu		H. CAI et al., 1998, Generation of metal nanoparticles by laser ablation of microspheres, Journal of Aerosol Science, vol 29, no5-6, pp627-636. (Ab.)		
Gu		K. ESUMI et al., 2000, Role of polyamodoamine dendrimers for preparing nanoparticles of gold, platinum and silver, Langmuir, vol 16, no 6, pp2604-2608.		
Gu		K. Esumi, et al., 2000, Spontaneous formation of gold nanopartic nanoparticles in aqueous solution of sugar-persubstituted polyamidoamine dendrimers, Langmuir, vol 16, no 6, pp2978-2980.	1	
Gu		F. Grohn et al., 2001, Nanoparticle formation within dendrimer-containing polymer networks: Route to new organic-inorganic hybrid materials, Macromolecules, vol 34, no 7, pp2179-2185.		
Ġv		S. RAVAINE et al., 1998, PHOTOchemical generation of gold nanop nanoparticles in Langmuir-Blodgett films, Langmuir, vol 14, no no 3. pp708-713. Abstract only		
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Examiner Date 9/16/05 Signature Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Oraw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique ditation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Notice of Referen	lotice of References Cited 4	Application/Control No.	1 _ ' '	Applicant(s)/Patent Under Reexamination LIN ET AL.	
		Examiner	Art Unit		
		George P. Wyszomierski	1742	Page 1 of 1	
	A.S. F	PATENT DOCUMENTS			

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*		Document Number Country Code-Number-Kind Code	A POPULARY	Name	Classification
	Α	US-6,228,334	05-2001	Hill et al.	423/25
	В	US-6,686,308	02-2004	Mao et al.	502/180
	С	US-2003/0216256	11-2003	Axtell et al.	502/417
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## FOREIGN PATENT DOCUMENTS

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## NON-PATENT DOCUMENTS

	TOTA ATENT DOCUMENTS						
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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December 16, 2005

Mr. George Wyszomierski Commissioner for Patents U.S. Patent and Trademark Office U.S. Department of Commerce P.O. Box 1450 Alexandria, VA 22313-1450

## Dear Mr. Wyszomierski:

Per the accompanying Office Action Summary (OAS) dated 09/21/2005, Dr. Lin. and I have made changes to our patent application (10/607,674) that we believe address all of the issues raised in the OAS. Please contact us with any additional questions or suggestions.

7-1

Daniel E. Walsh